VOLVO PENTA D13C2 MG / RC 300/360kW	Document No 23477805	Issue Index 03

General

In-line four stroke diesel engine with direct injection. Rotation direction, anti-clockwise viewed towards flywheel. Turbocharged

Number of cylinders			6
Displacement, total		litre in^3	12,78 779,7
Firing order			1-5-3-6-2-4
Bore		mm in	131 5,16
Stroke		mm in	158 6,22
Compression ratio			18.5
Dry weight	Engine only, excluding cooling system	kg lb	1500 3307
	Genset, see dimension drawing	kg lb	

Performance		**rpm** **load**	**1500** **25%**	**50%**	**75%**	**100%**	**110%**
Power setting 300 kW	with fan	kW hp	75 102	150 204	225 306	300 408	330 449
	with fan 890 mm	kW hp	64 87	139 189	214 291	289 393	319 434
Torque at:	Power setting 300 kW	Nm lbft	477 352	955 704	1432 1056	1910 1409	2101 1549
Mean piston speed		m/s ft/sec			7,9 26,0		
Effective mean pressure at:	Power setting 300 kW	MPa psi	0,5 68	0,9 136	1,4 204	1,9 272	2,1 300
Max combustion pressure at:	Power setting 300 kW	MPa psi	8,2 1189	10,5 1523	13,5 1958	16,6 2408	18 2611
Total mass moment of inertia, J (mR^2) Engine only		kgm^2 $lbft^2$			3,43 81,4		
Friction Power		kW hp	32 43	32 43	32 43	32 43	32 43
If applicable Derating are described in Technical Diagrams							

Performance		**rpm** **load**	**1800** **25%**	**50%**	**75%**	**100%**	**110%**
Power setting 360 kW	without fan	kW hp	90 122	180 245	270 367	360 490	396 539
	with fan 890 mm	kW hp	71 97	161 219	251 341	341 464	377 513
Torque at:	Power setting 360 kW	Nm lbft	477 352	955 704	1432 1056	1910 1409	2101 1549
Mean piston speed		m/s ft/sec			9,5 31,2		
Effective mean pressure at:	Power setting 360 kW	MPa psi	0,5 68	0,9 136	1,4 204	1,9 272	2,1 300
Max combustion pressure at:	Power setting 360 kW	MPa psi	8,3 1204	10,6 1537	13,9 2016	17,7 2567	19,3 2799
Total mass moment of inertia, J (mR^2) Engine only		kgm^2 $lbft^2$			3,43 81,4		
Friction Power		kW hp	45 61,2	45 61,2	45 61,2	45 61,2	45 61,2
If applicable Derating are described in Technical Diagrams							

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Engine noise emission

Test Standards: ISO 3744-1981 (E) sound power (without fan, intake and exhaust noise)
Tolerans ± 0.75 dB(A)

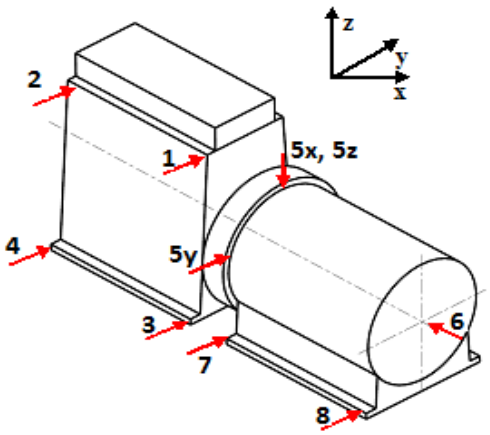
		rpm			1500		
		load	**25%**	**50%**	**75%**	**100%**	**110%**
Measured sound power Lw	No load	dB(A)	107,5	107,5	107,5	107,5	107,5
	Power setting 300 kW	dB(A)	109,5	109,9	110,4	111	111
		rpm			**1800**		
Measured sound power Lw	No load	dB(A)	109,1	109,1	109,1	109,1	109,1
	Power setting 360 kW	dB(A)	111,4	112,3	112,7	113,4	113,2

Vibrations (vibration velocity)

Power:	kW	300
Speed:	rpm	1500
Ambient temperature	°C	29-36
Type of Fuel		SD10

Measuring Point No	Rms overall values (2 Hz to 1000 Hz) (calculated)									Remarks
	Direction of Measurement									Prime
	Axial (x) [mm]	Axial (x) [mm/s]	Axial (x) [m/s^2]	Transverse (y) [mm]	Transverse (y) [mm/s]	Transverse (y) [m/s^2]	Vertical (z) [mm]	Vertical (z) [mm/s]	Vertical (z) [m/s^2]	
1	0,183	8,5	9,9	0,395	11,1	11,8	0,15	10,4	9,2	Engine
2	0,212	8,2	7,9	0,529	11,5	8,7	0,192	8,8	8,9	
3	0,228	9,5	10,2	0,396	15,1	18,1	0,141	11,8	12,1	
4	0,171	9,2	15,6	0,193	11,1	16,5	0,16	9,4	14	
5	0,093	16,7	11,2	0,104	8,1	8,3	0,098	14,6	12,6	Generator
6	0,054	15,8	11,6	0,085	16,7	8,5	0,049	14,7	10,7	
7	0,085	8,5	4,5	0,079	16	8,5	0,106	18,1	10,7	
8	0,093	8,2	4,5	0,093	14,8	8,4	0,096	17,1	10,4	

Declared vibration levels according to ISO 8528-9



Test conditions for load acceptance data

Warm engine.	**Generator**	**Modell**	**Type of AVR**
	Stamford	HCI534D1	MX341
	Voltage drop		

Load acceptance performance can vary due to actual alternator inertia, voltage regulator, type of load and local ambient conditions.

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Single step load performance at 1500 rpm

Load (%)	Speed diff (%)		Recovery time (s)		Remaining load	Speed diff (%)		Recovery time (s)	
	Nominal	110% power	Nominal	110% power	(%)	Nomi-nal	110% power	Nomi-nal	110% power
0-20	2,9	2,7	1,5	1,5	20-100	12,1	14,7	3,1	3,6
0-40	4,2	4,6	1,6	1,5	40-100	5,6	8,7	2,0	2,7
0-60	5,9	7,1	1,8	2,3	60-100	3,6	4,2	1,1	1,8
0-80	11,5	13,8	3,0	3,4	80-100	1,9	2,1	1,0	1,0
0-100	20,5	25,7	4,3	5,4					
0-72.2	9,0		2,3		72.2-100	2,6		0,9	
0-65.4		8,8		2,3	65.4-100		3,4		1,1
0-63.0	6,3		2,0		63.0-100	3,4		1,1	
0-57.0		6,6		1,9	57.0-100		4,4		1,8
100-0						-4,7	-5,3	1,2	1,1

Single step load performance at 1800 rpm

Load (%)	Speed diff %		Recovery time (s)		Remaining load	Speed diff (%)		Recovery time (s)	
	Nominal	110% power	Nominal	110% power	(%)	Nomi-nal	110% power	Nomi-nal	110% power
0-20	1,7	1,8	0,8	0,8	20-100	7,4	9,6	2,7	3,1
0-40	2,7	2,6	1,1	0,9	40-100	5,8	7,4	2,2	2,9
0-60	3,4	4,1	1,2	1,4	60-100	2,4	2,7	0,9	1,3
0-80	6,3	9,0	2,3	2,8	80-100	1,3	1,3	0,7	0,7
0-100	12,7	14,9	3,3	4,1					
0-87.8	8,8		2,5		87.8-100	0,8		0,4	
0-80.1		8,9		2,5	80.1-100		1,3		0,6
0-76.2	6,0		2,1		76.6-100	1,5		0,7	
0-69.8		6,0		2,2	69.8-100		1,9		0,8
100-0						-3,9	-3,5	1,5	1,6

Cold start performance		**rpm**	**1500**	**1800**
Time from start to stay within 0.5% of no load speed at ambient temperature:	20°C	s	4,8	4,6
	5 °C	s	5,7	5,2

Lubrication system		**rpm** **load**	**1500** **25%**	**50%**	**75%**	**100%**	**110%**
Lubricating oil consumption	Power setting 300 kW	liter/h	0,005	0,010	0,015	0,020	0,023
		US gal/h	0,001	0,003	0,004	0,005	0,006
		rpm			**1800**		
	Power setting 360 kW	liter/h	0,006	0,012	0,018	0,025	0,027
		US gal/h	0,002	0,003	0,005	0,007	0,007

Oil system capacity including filters		liter	49	
		US gal	12,9	
Oil sump capacity:	max	liter	44	
		US gal	11,6	
	min	liter	35	
		US gal	9,2	
Oil change intervals/ specifications: (Fuel quality dependent)	VDS-2. ACEA: E3, E5. API: CG-4, CH4	h	600	
	VDS. ACEA: E2. API: CF, CF-4	h	400	
		h		
		h		
Engine angularity limits, static (ref. classification rules, roll and pitch simultaneously)	front up	°	36	
	front down	°	36	
	side tilt	°	36	

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Lubrication system		rpm	1500	1800
Oil pressure at rated speed		kPa	360	450
		psi	52	65
Lubrication oil temperature in oil sump:	max	°C	110	
		°F	230	
Oil filter micron size		µ	40	

* See also general section in the sales guide

Fuel system		rpm load	1500 25%	 50%	 75%	 100%	 110%
Specific fuel consumption with: (Power setting without fan)	Power setting 300 kW	g/kWh	231	202	194	190	190
		lb/hph	0,375	0,328	0,314	0,309	0,308
		rpm			**1800**		
	Power setting 360 kW	g/kWh	248	213	200	200	197
		lb/hph	0,402	0,344	0,324	0,324	0,319
Fuel to conform to		ASTM-D975-No. 1 and 2-D, JIS KK 2204, EN 590 MDO-DMX and MDO-DMA (ISO8217)					
		rpm			**1500**		
System return flow	Power setting 300 kW	liter/h	53	52	52	52	51
		US gal/h	14,0	13,7	13,7	13,7	13,5
		rpm			**1800**		
	Power setting 360 kW	liter/h	56	56	55	55	55
		US gal/h	14,8	14,8	14,5	14,5	14,5
		rpm			**1500**		
System supply flow	Power setting 300 kW	liter/h	74	89	105	121	128
		US gal/h	19,6	23,5	27,7	32,0	33,8
		rpm			**1800**		
	Power setting 360 kW	liter/h	82	102	120	141	151
		US gal/h	21,7	26,9	31,7	37,3	39,9
		rpm			**1500**		
Normal fuel pressure (after filter)	Power setting 300 kW	kPa	582	576	570	564	561
		psi	84,4	83,5	82,7	81,8	81,4
		rpm			**1800**		
	Power setting 360 kW	kPa	608	600	593	585	583
		psi	88,2	87,0	86,0	84,8	84,6

Fuel system		
Fuel supply line max restriction	kPa	30
	psi	4,4
Fuel supply max pressure head (day tank, from CL)	m	2
	feet	6,6
Fuel supply line max suction head (from CL)	kPa	4
	psi	0,6
Fuel return line max restriction	kPa	20
	psi	2,9
Maximum allowable inlet fuel temp	°C	50
	°F	122
Fuel filter micron size	µ	2

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Intake system		rpm / load	1500 / 25%	50%	75%	100%	110%
Air consumption at: (+25°C and 100kPa)	Power setting 300 kW	m^3/min	10,5	13,7	17,8	21,7	23,0
		cfm	372	482	629	766	813
		rpm			1800		
	Power setting 360 kW	m^3/min	14,3	16,3	21,0	24,7	26,8
		cfm	503	575	741	871	947
Max allowable air intake restriction including piping		kPa	6				
		psi	0,9				
Air filter type			Paper cartridge				
Air filter cleaning efficiency		%	98,5				

Exhaust system		rpm / load	1500 / 25%	50%	75%	100%	110%
Heat rejection to exhaust at:	Power setting 300 kW	kW	57	99	137	172	190
		BTU/min	3242	5636	7791	9776	10805
		rpm			1800		
	Power setting 360 kW	kW	77	129	173	223	245
		BTU/min	4373	7319	9833	12670	13933
		rpm			1500		
Exhaust gas temperature after turbine at:	Power setting 300 kW	°C	285	356	377	391	398
		°F	545	673	711	736	748
		rpm			1800		
	Power setting 360 kW	°C	260	301	337	399	423
		°F	500	574	639	750	793
Max allowable back pressure in exhaust line		kPa	17				
		psi	2,5				
		rpm			1500		
Exhaust gas flow at: (temp and pressure after turbine at the corresponding power setting)	Power setting 300 kW	m^3/min	20,2	29,3	38,9	47,5	50,5
		cfm	712	1035	1373	1676	1782
		rpm			1800		
	Power setting 360 kW	m^3/min	26,6	36,6	46,5	56,8	60,9
		cfm	940	1293	1643	2004	2149

Cooling system		rpm / load	1500 / 25%	50%	75%	100%	110%
Heat rejection radiation from engine to surrounding at:	Power setting 300 kW	kW	3,0	3,5	4,0	4,5	4,7
		BTU/min	171	199	227	256	267
		rpm			1800		
	Power setting 360 kW	kW	3,5	4,0	4,5	5,0	5,2
		BTU/min	199	227	256	284	296

Cooling system		rpm	1500	50%	75%	100%	110%
Heat rejection to coolant at:	Power setting 300 kW	kW	64	82	96	137	167
		BTU/min	3640	4663	5459	7791	9497
		rpm			1800		
	Power setting 360 kW	kW	107	131	158	185	201
		BTU/min	6085	7450	8985	10521	11431
Radiator cooling system type		Closed circuit					
		rpm	1500				
Standard radiator core area	Power setting 300 kW	m²	0,8				
		foot²	8,61				
		rpm	1800				
	Power setting 360 kW	m²	0,8				
		foot²	8,61				

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		rpm	**1500**		
Fan diameter	Power setting 300 kW	mm	890		
		in	35,0		
		rpm	**1800**		
	Power setting 360 kW	mm	890		
		in	35,0		
		rpm		**1500**	
Fan power consumption			fan Ø 890		
		kW	11		
		hp	15		
		rpm		**1800**	
			fan Ø 890		
		kW	19		
		hp	26		

Cooling system		**rpm**	**1500**		
Fan drive ratio	fan ø 890		0,99		
		rpm	**1800**		
	fan ø 890		0,99		
Coolant capacity:	engine	liter	20		
		US gal	5,28		
		rpm		**1500**	
	std radiator with hoses		Power setting 300 kW		Power setting
		liter	**24**		
		US gal	6,34		
		rpm		**1800**	
			Power setting 360 kW		Power setting
		liter	24		
		US gal	6,34		
Coolant pump	drive/ratio		Belt/1.43:1		
		rpm	**1500**	**1800**	
Coolant flow with standard system		l/s	5,22	6,23	
		US gal/s	1,38	1,65	
Thermostat	start to open	°C	82		
		°F	180		
	fully open	°C	92		
		°F	198		
Maximum static pressure head (expansion tank height + pressure cap setting)		kPa	75		
		psi	10,9		
Standard pressure cap setting		kPa	75		
		psi	10,9		
Maximum temperature entering engine		°C	98		
		°F	208		

		rpm			**1500**		
Charge air cooler system		**load**	**25%**	**50%**	**75%**	**100%**	**110%**
Cooling power	Power setting 300 kW	kW	10	20	38	56	62
		BTU/min	569	1137	2161	3185	3526
		rpm			**1800**		
	Power setting 360 kW	kW	12	18	38	64	78
		BTU/min	682	1024	2161	3640	4436
		rpm			**1500**		
Charge air mass flow	Power setting 300 kW	kg/s	0,23	0,3	0,39	0,44	0,47
		rpm			**1800**		
	Power setting 360 kW	kg/s	0,28	0,32	0,42	0,51	0,55

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Charge air cooler system		rpm			**1500**		
Charge air inlet temp. Charge air temp after turbo compressor)	Power setting 300 kW	°C °F	79 174	103 217	138 280	171 340	180 356
		rpm			**1800**		
	Power setting 360 kW	°C °F	86 187	101 214	139 282	173 343	191 376
		rpm			**1500**		
Charge air outlet temp. (Charge air temp after charge air cooler)	Power setting 300 kW	°C °F	33 91	36 97	40 104	43 109	43 109
		rpm			**1800**		
	Power setting 360 kW	°C °F	42 108	44 111	45 113	48 118	48 118
Maximum pressure drop over charge air cooler, incl. piping		kPa psi	10 1,45				
		rpm	**1500**				
Charge air pressure	Power setting 300 kW	kPa psi	220 31,91				
		rpm	**1800**				
	Power setting 360 kW	kPa psi	241 34,95				
		rpm	**1500**				
Standard charge air cooler core area	Power setting 300 kW	m² foot²	0,82 8,83				
		rpm	**1800**				
	Power setting 360 kW	m² foot²	0,82 8,83				

Cooling performance

Cooling air flow and external restriction at different radiator air temperatures based on 103°C TTT and 40% coolant. Valid at 1 atm. (radiator and cooling fan, see optional equipment)

Engine speed rpm	Air on temp °C	Nominal POWER		110% power POWER	
		Air flow m^3/s	External restriction Pa	Air flow m^3/s	External restriction
1500	57,4	5,0	500		
	52,7			5,0	500
	61,2	5,6	300		
	56,8			5,6	300
	64,1	6,3	100		
	60,1			6,3	100
	65,4	6,6	0		
	61,5			6,6	0
1800	54,1	6,5	500		
	49,9			6,6	500
	57,0	7,1	300		
	53,1			7,2	300
	59,5	7,7	100		
	55,8			7,7	100
	60,7	8,0	0		
	57,1			8,0	0

Note! Calculated values >0 Pa

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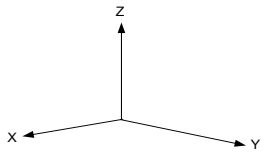
Engine management system

Functionality	Alternatives	Default setting
Governor mode	Isochronus/Droop	Droop
Governor droop	0/0, 1-5%	0,0
Governor response	Adjustable PID (service tool)	0/0/0
Idle speed	600-1200	900,0
Fine speed adjustment	±90	0,0
Stop function	Normaly Closed/Normaly Opened	Depends on order

Electrical system			**rpm**	**1500 and 1800**
Voltage and type			24V / insulated from earth	
Alternator:	make/output		Amp	Bosch/110A
	tacho output		Hz/alt. Rev	6
	drive ratio			3.7:1
Starter motor			make	Melco
			type	105P70
			kW	7,0
Starter motor solenoid,	pull current		Amp	280
	hold current		Amp	-
Number of teeth on:	flywheel			153
	starter motor			12
Inrush current at +20°C \ +5°C			Amp	1020 \ 1560
Cranking current at +20°C \ +5°C			Amp	400 \ 530
Crank engine speed at 20°C \ +5°C			rpm	150 \ 130
Starter motor battery capacity:		max	Ah	2x220
		min at +5°C	Ah	2x180
Max. g-force		x	m/s²	2
		y	m/s²	2
		z	m/s²	6

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Sensors : Control and Monitoring System							Engine protection action
Sensors	**Signal**	**Range**	**Unit**	**Warning Initial Delay / Warning Delay**	**Warning Level**	**Derating Level**	
AUS/DEF concentration	Ultrasonic 1 Hz	0 - 62.5	%	N/A	<28	N/A	Warning only
AUS/DEF Tank Empty	Ultrasonic 1 Hz	0-100	%	30 sec	0	N/A	Warning only
AUS/DEF Tank Low level	Ultrasonic 1 Hz	0-100	%	30 sec	15	N/A	Warning only
AUS/DEF tank temp High alarm	Resistive	-40 - 125 ±1.5°C	°C	1 sec	70	N/A	Warning only
Coolant level switch	Digital	ON/OFF		30 sec from start / 11 sec	Low	N/A	Warning only
Coolant temperature	50-0 kΩ	-40 - 140 ±1.5°C	°C	30 sec from start / 2 sec	98	N/A	Warning only
Engine speed cam	Frequency		rpm	Instant	Lost signal	N/A	Warning only
Engine speed crank	Frequency		rpm	Instant	Lost signal	N/A	Warning only
Exhaust gas temperature after turbine	PT200	-40 - 750 ± 2.5%	°C	30 sec from start / 2 sec	532	N/A	Warning only
					N/A	N/A	Warning only
Oil level sensor	Digital	± 1.9 mm		30 sec from start / 5 sec	Low level	N/A	Warning only
Oil temperature	50-0 kΩ	-40 - 140 ± 1.5°C	°C	30 sec from start/1.5 sec	125	N/A	Warning only
Exhaust temperature before muffler	PT200	-40 - 750 ± 2.5%	°C	30 sec from start / 2 sec	532	N/A	Warning only
Water In fuel switch	Digital	ON/OFF		Instant	Water in fuel	N/A	Warning only

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Sensors (rpm dependent)	Signal	Range	Unit	Initial Delay / Delay	Warning Level / Derating Level / Shutdown Level rpm Map					Comment
Charge air pressure	0,5-4,5 V	50-600 ±4.2 kPa	kPa					**1500 rpm**	**1800 rpm**	
Warning Level			kPa	30 sec from start / 2.2 sec				290	270	
Derating Level			kPa	NA				NA	NA	
Charge air temperature	50-0 kΩ	-40 - 130 ±4%	°C					**1500 rpm**	**1800 rpm**	
Warning Level			°C	60 sec from start / 15 sec				80	76	
Derating Level			°C	NA				NA	NA	
Coolant pressure	0,5-4,5 V	0-300± 3%	kPa					**1500 rpm**	**1800 rpm**	
Warning Level			kPa	30 sec from start /1.5sec				50	76	
Derating Level			kPa	NA				NA	NA	
Fuel pressure	0,5-4,5 V	0-700±2.5%	kPa					**1500 rpm**	**1800 rpm**	
Warning Level			kPa	60 sec from start / 5 sec				205	280	
Derating Level			kPa	NA				NA	NA	
Oil pressure	0,5-4,5 V	0-700±2.5%	kPa					**1500 rpm**	**1800 rpm**	
Warning Level			kPa	30 sec from start / 3 sec				260	260	
Derating Level			kPa	NA				NA	NA	

Warning = Yellow Lamp active
Derating = Red Lamp active

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For SDM only

Sensors Control and Monitoring System						
Sensors	**Signal**	**Range**	**Unit**	**Warning Initial Delay /**	**Shutdown level**	**Engine protection action**
Coolant temperature	Digital	ON/OFF ON= Shutdown	°C	12sec from start/1 sec	105	Shutdown
Eng. overspeed SDM 1500+15%	Frequency	153 puls./rev	rpm / Hz	Instant	1725 rpm / 4399 Hz	Shutdown
Eng. overspeed SDM 1800+15%	Frequency	153 puls./rev	rpm / Hz	Instant	2070 rpm / 5278 Hz	Shutdown

Sensors (rpm dependent)	**Signal**	**Range**	**Unit**	**Initial Delay / Delay**	**Warning Level / Derating Level / Shutdown Level**					**Engine protection action**
					0 rpm	**600 rpm**	**1000 rpm**	**1500 rpm**	**1800 rpm**	
Oil pressure	Digital	ON/OFF	kPa	12 sec from start / 1 sec	NA	120 ±20	120 ±20	120 ±20	120 ±20	Shutdown

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Technical data - Exhaust AfterTreatment System data (EATS)

Weight data:

SCR system weight: (incl SCR unit, AUS injector pipe, AUS sensor and bracket)			kg lb	115,7 255,1
Total SCR system weight for IPS: (incl SCR unit, AUS injector pipe, AUS sensor and bracket, exhaust piping)			kg lb	115,7 255,1
AUS pump			kg lb	3,1 6,8
AUS cabinet 20l weight: (incl tank, pump,UQS, ACM)			kg lb	36,4 80,2
AUS tank 160l weight:			kg lb	45 99,2
UQS - Lenght/Weight	mm in	439 17,3	kg lb	1,2 2,6
UQS - Lenght/Weight	mm in	597 23,5	kg lb	1,2 2,6
UQS - Lenght/Weight	mm in	715 28,1	kg lb	1,3 2,9

Dimension data:

SCR Flange:	Standard type	2.2 / 23.7	
	Diameter:	in/mm	6 in / 152 mm
	Number of Inlet / Outlet:	1 inlet / 2 outlet	

Flow data:

Max AUS flow to injector	l/h US gal/h	7,9 2,1
Max collant flow to AUS injector	l/h US gal/h	6,7 1,8

Exhaust system	**Rating**	**rpm**	**600**	**800**	**1000**	**1200**	**1300**	**1400**	**1500**	**1600**	**1800**	**1900**
Max allowable temperature drop between turbine and SCR muffler inlet.		°C °F							10 50		10 50	
SCR muffler pressure drop at prop. load x^3		kPa psi							3 0,4		5 0,7	
SCR muffler pressure drop at Full load		kPa psi							6 0,9		7 1,0	

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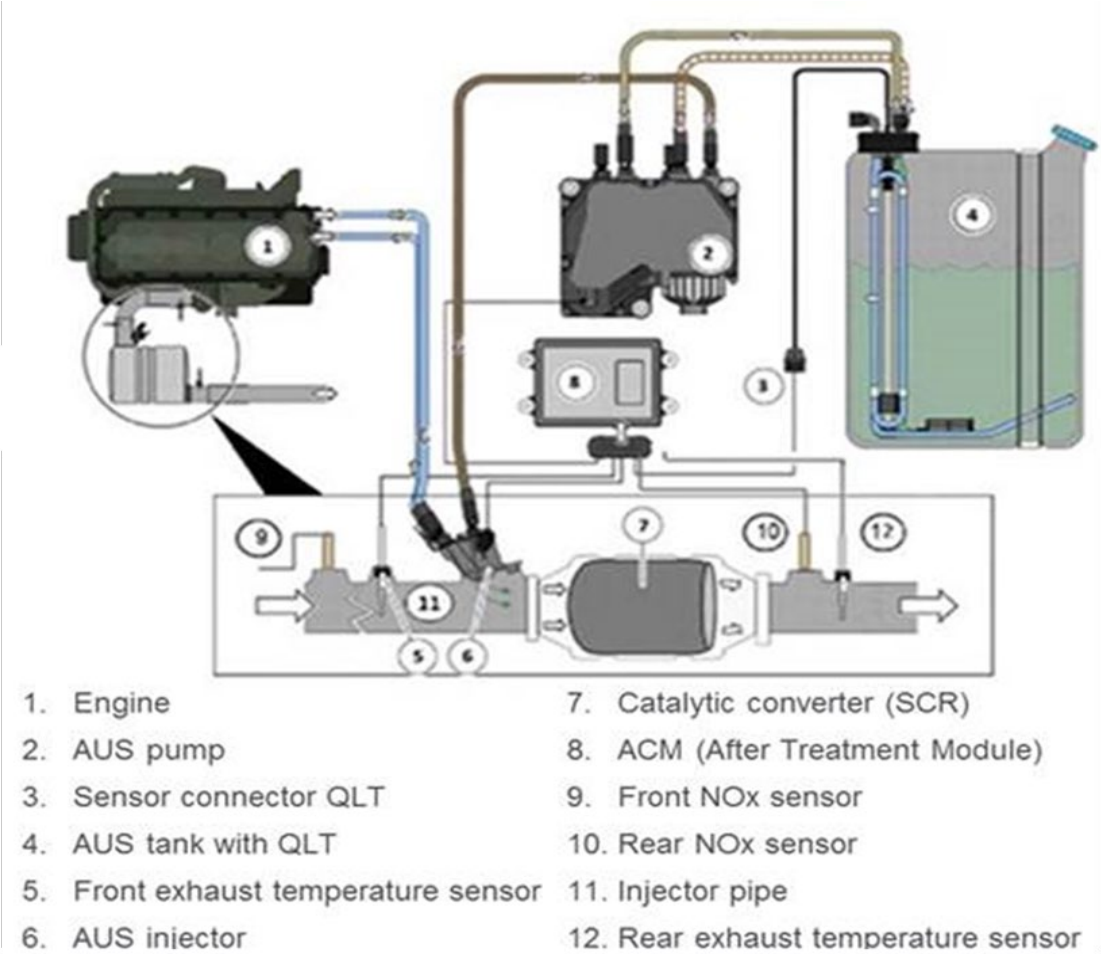
AUS system	Rating	rpm	600	800	1000	1200	1300	1400	1500	1600	1800	1900
Specific AUS consumption		g/kWh lb/hph							14,40 0,02		12,00 0,02	
AUS consumption at Full load		l/h US gal/h							4,54 1,20		5,57 1,47	

AUS concentration XX%



Abbreviations:

ACM	Aftertreament Control Module
AUS	Aqueous Urea Solution
EATS	Exhaust Aftertreatment System
SCR	Selective Catalytic Reduction
UDS	Urea Dosing System
UQS	Urea Quality Sensor

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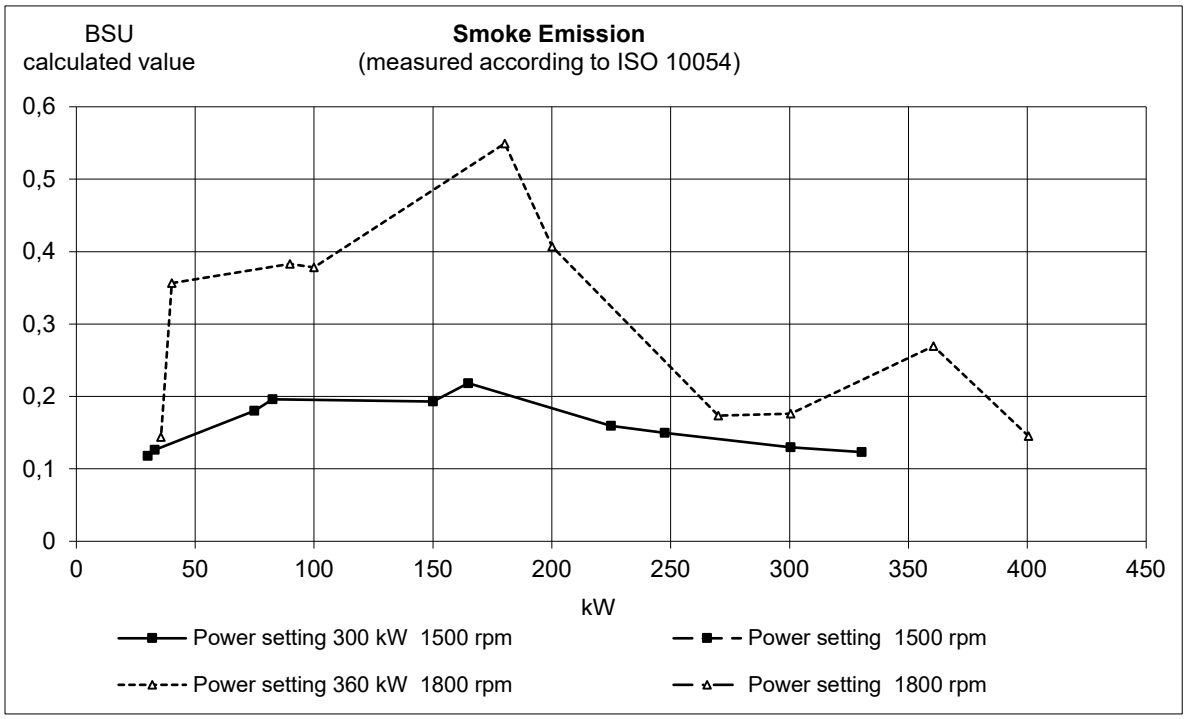

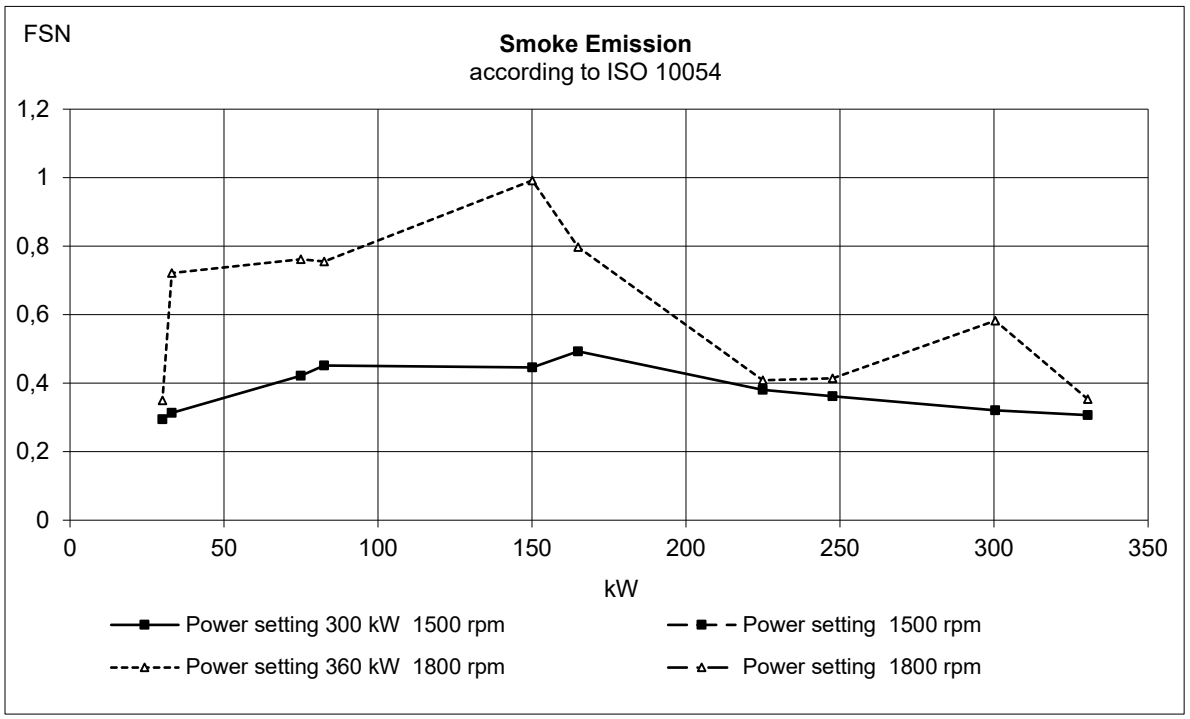

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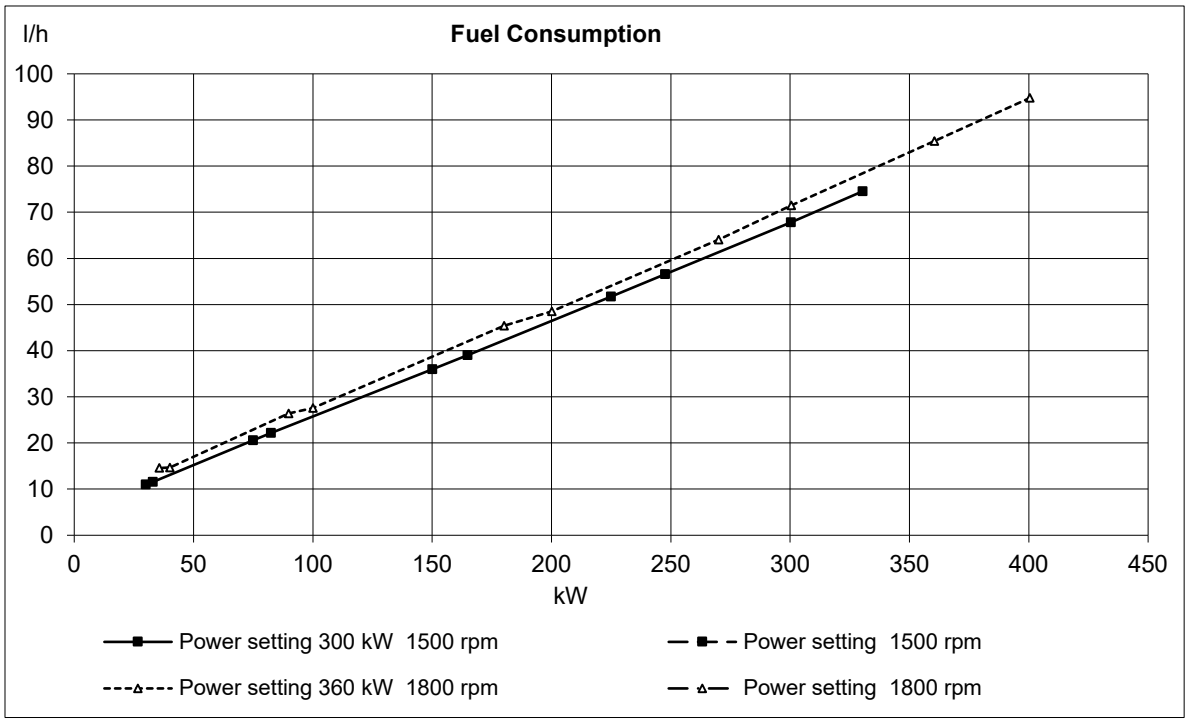

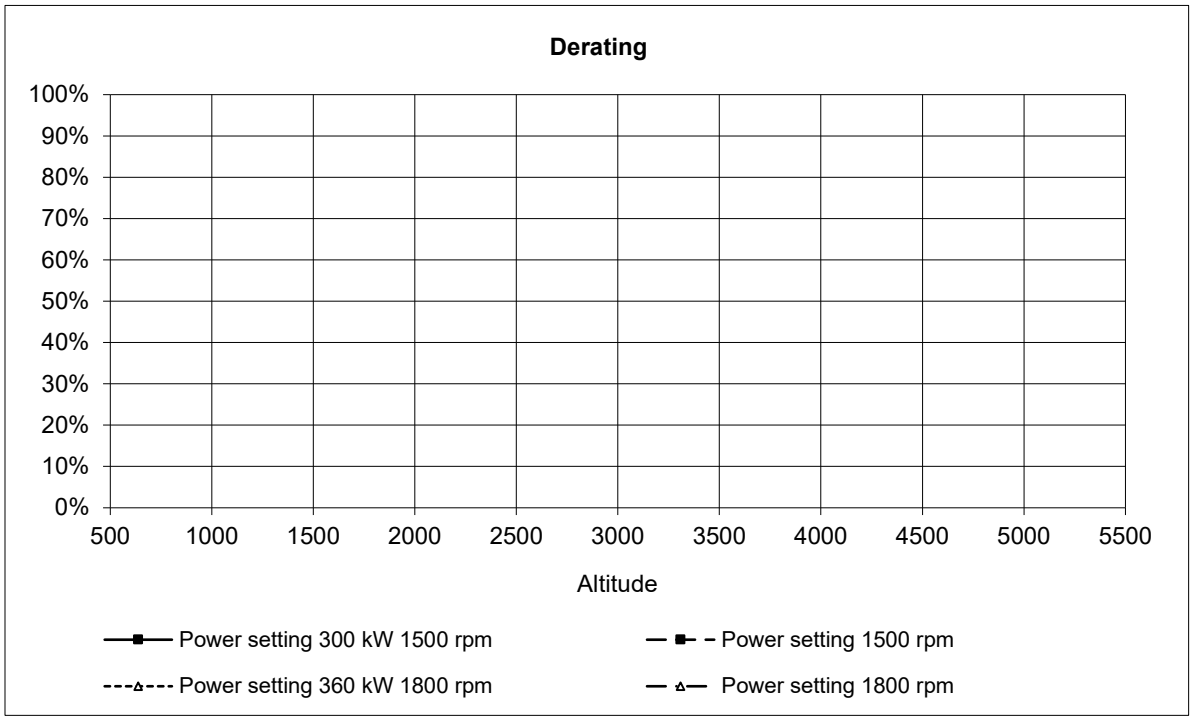

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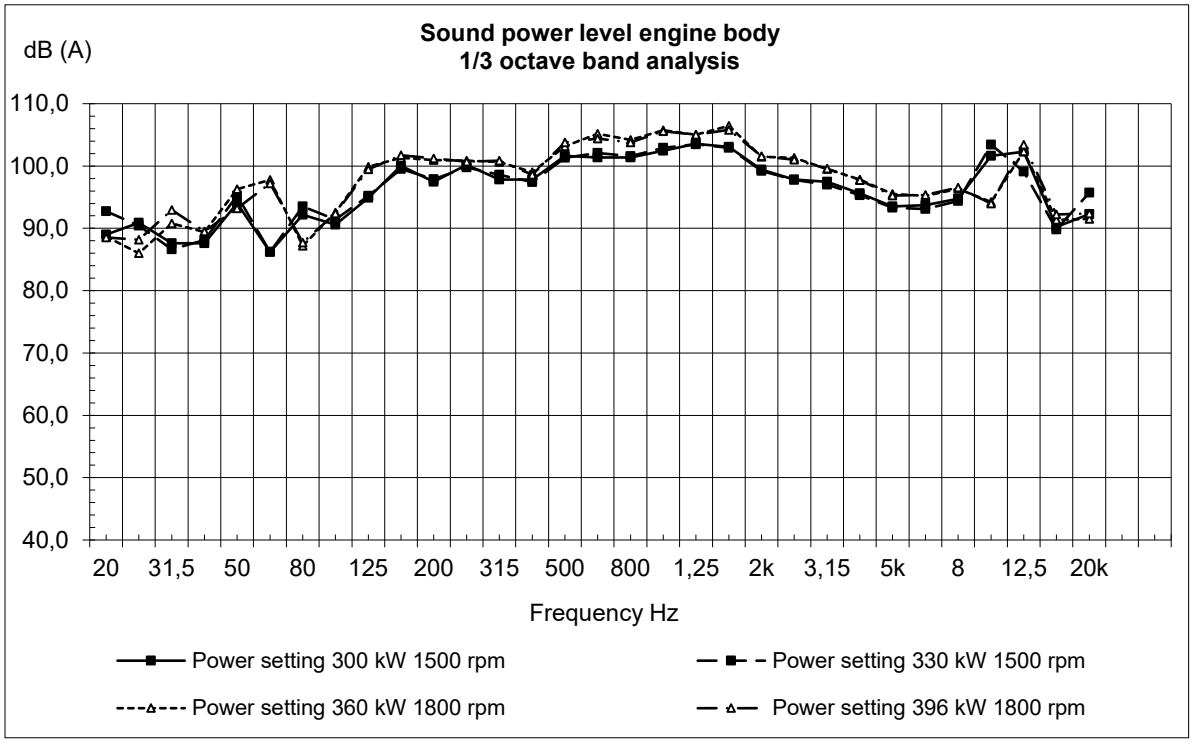

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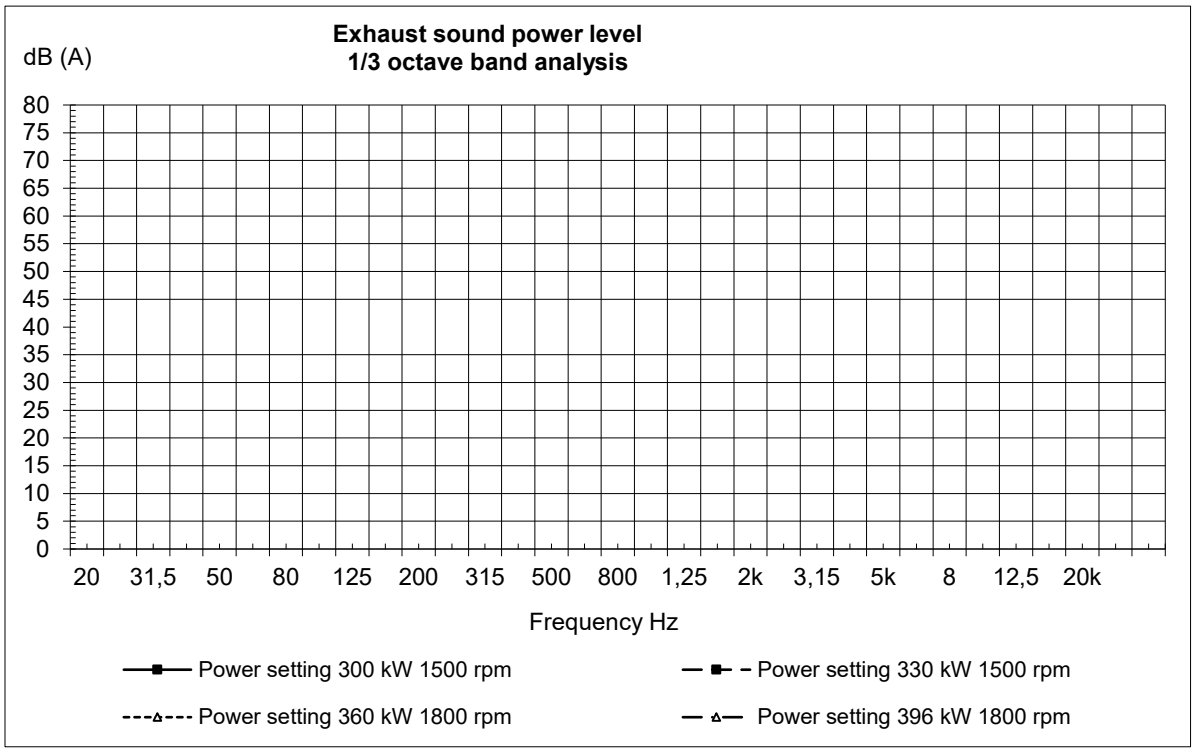

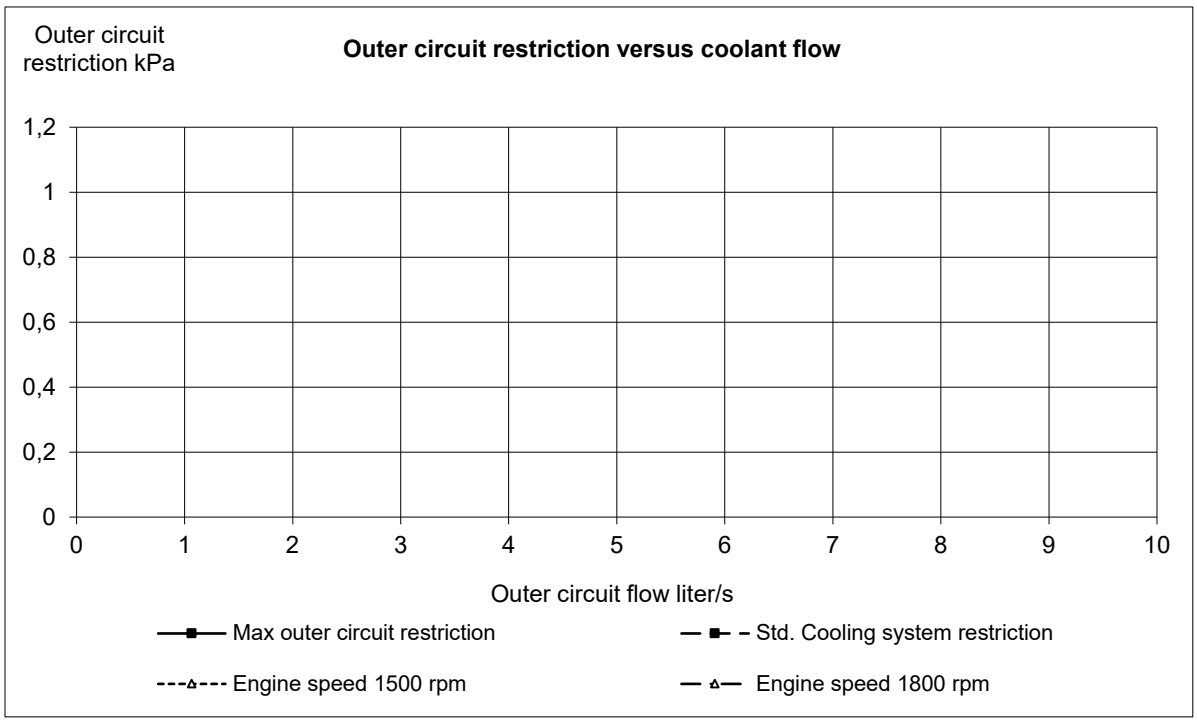

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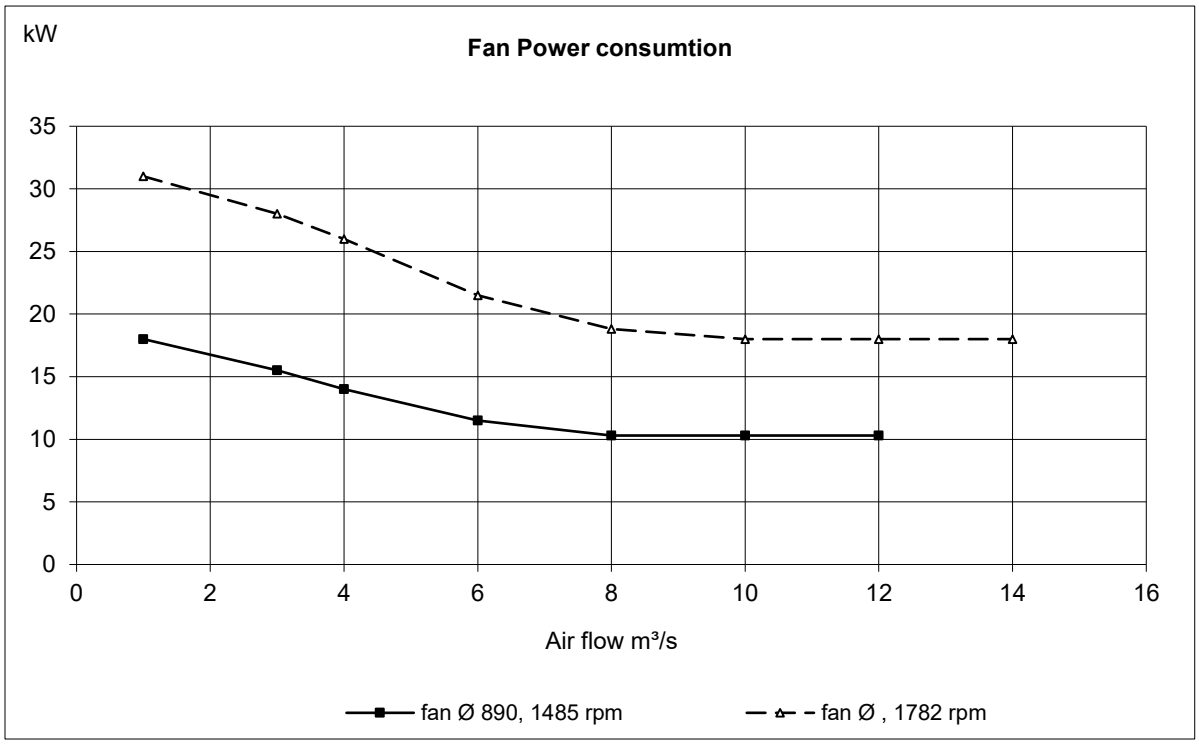

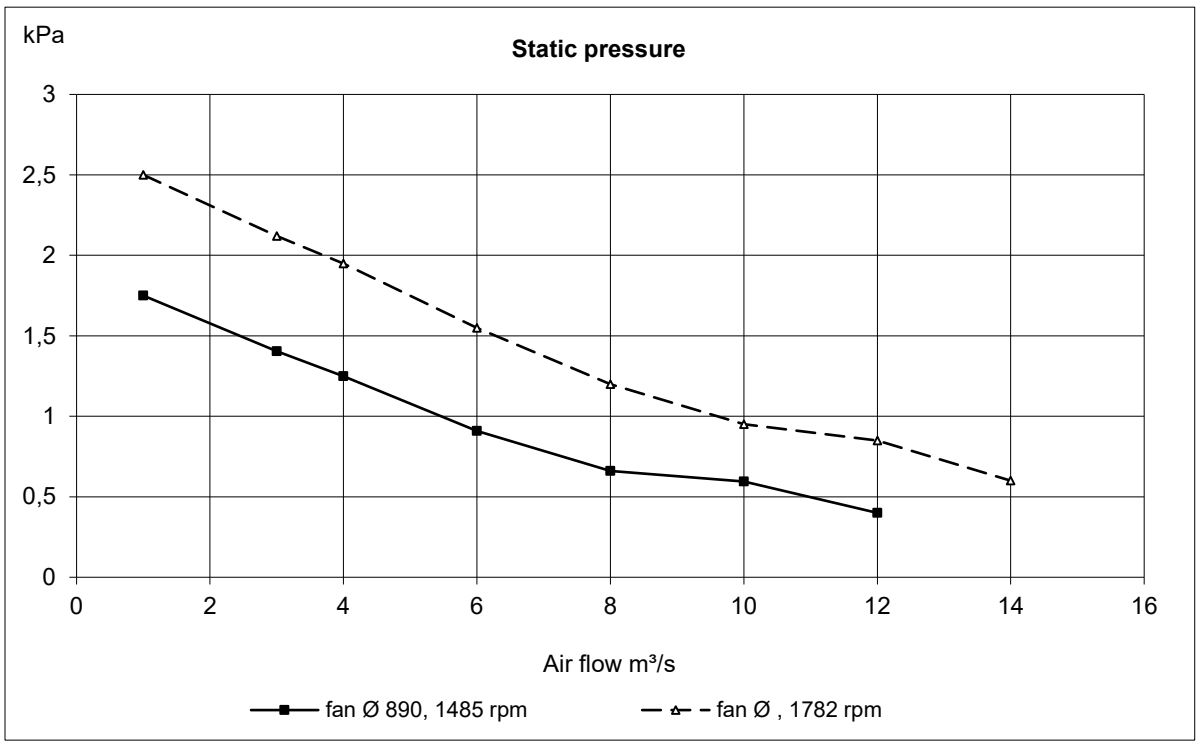

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